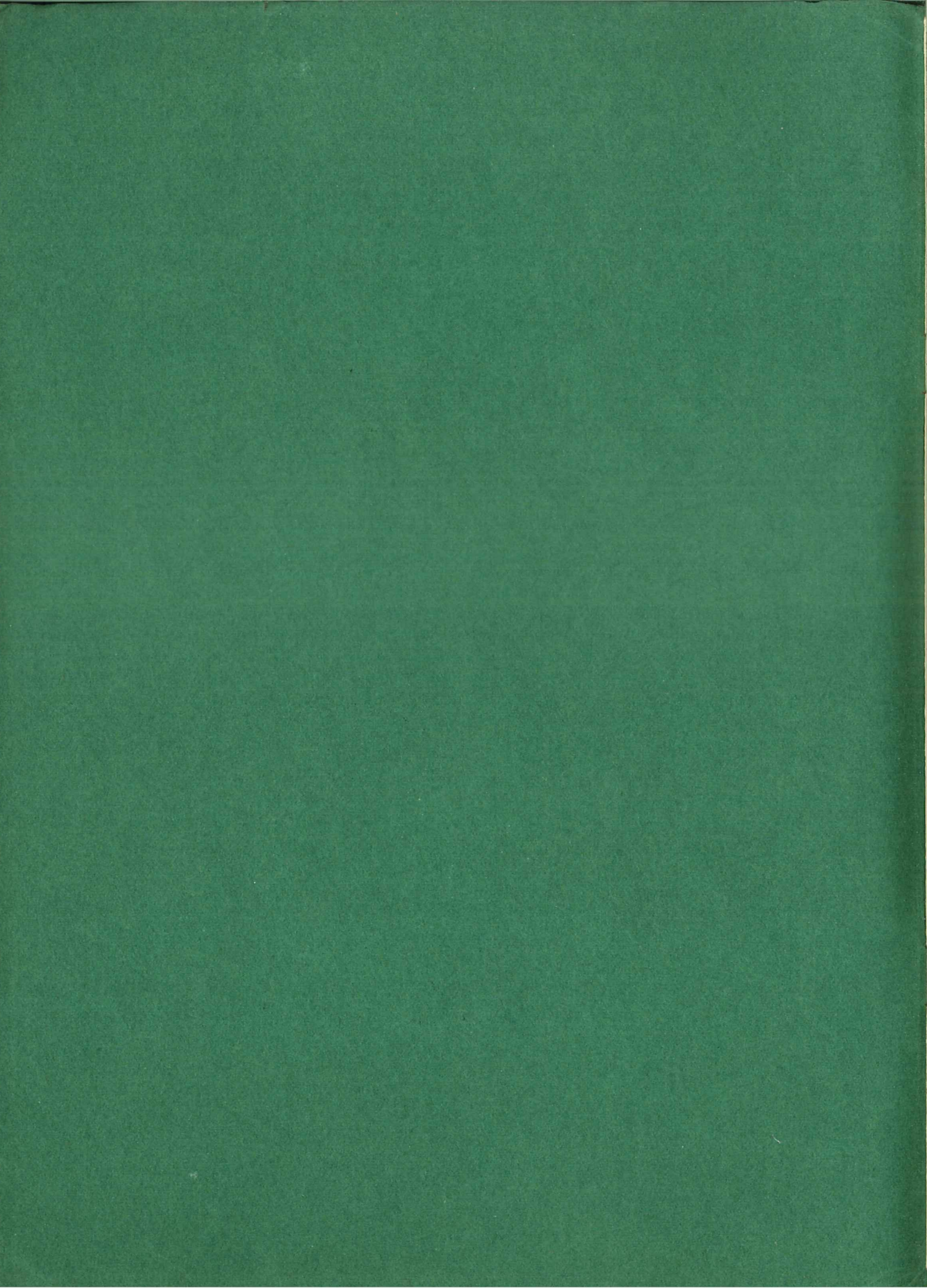




CATALOG No 61





Bommer

Checking Floor Hinges

AND

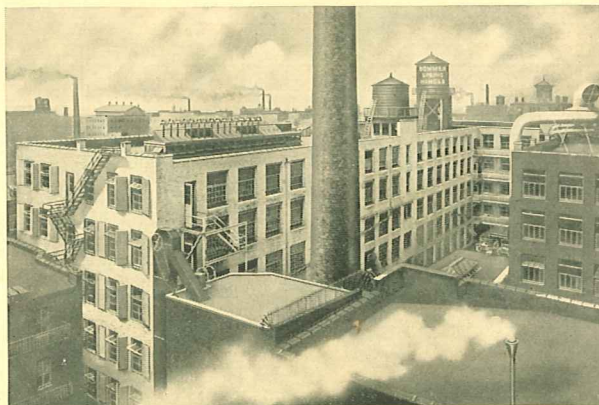
THRESHOLDS

Catalog No. 61

11-6-42

D. A. Ripaw Hinge # 40 = \$ 75⁰⁰

S. A. " " # 25 = \$ 55⁰⁰



BOMMER SPRING HINGE COMPANY
Established in 1876

Office and Works:
251-271 Classon Avenue, Brooklyn, N. Y., U. S. A.

Chicago Office:
180 North Wacker Drive

Bommer Checking Floor Hinges Single Action and Double Action

For entrance, vestibule and interior doors, respectively, in office buildings, theatres, department stores, hospitals, churches, schools, apartments, etc. Also for residence, pantry and dining room doors.

These hinges embody every improvement with the highest degree of precision not usually employed in a device of this kind, and are most reliable and strong.

The torsion spring type tension is adjustable to meet varying wind or draft conditions.

The checking mechanism is of valve and piston type and holds door under control, operates smoothly, and closes the door without noise. The closing speed of the door is regulated by a needle-valve, accessible in the floor plate.

The opening resistance of the door is made as low as possible consistent with the closing force required.

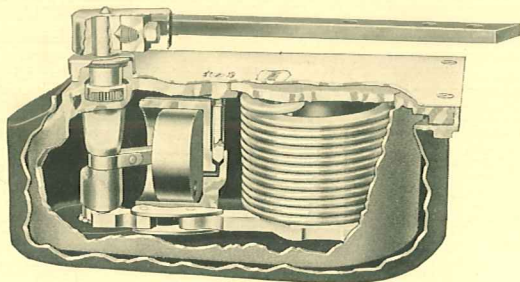
The mechanism operates in a non-freezing, lubricating and checking liquid. Conforms to U. S. Government Standard Specification.

The Case is made of impermeable iron, preventing seepage of liquid.

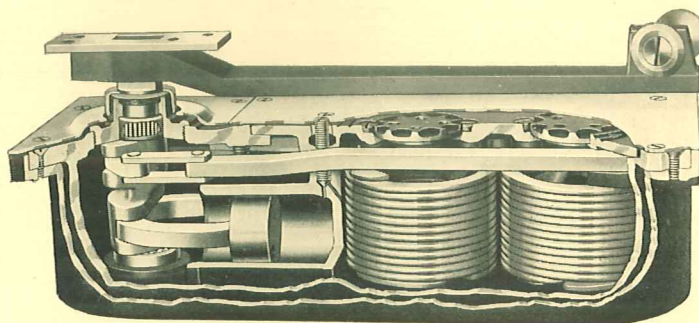
The weight of the door is carried on hardened steel ball bearings.

The best materials obtainable are used. Parts subject to wear are made of drop-forged or stamped steel, case-hardened. The spring is made of steel oil-tempered.

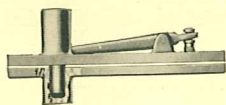
Complete catalog and templet drawings supplied upon request.



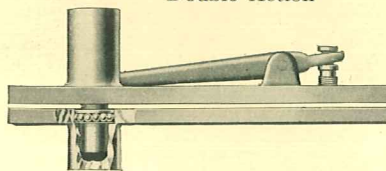
Torsion Spring Type 88
Single Action



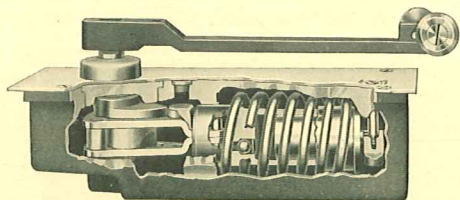
Torsion Spring Type 86
Double Action



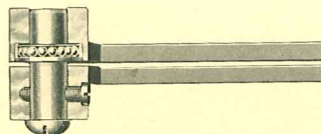
Type No. P2
Furnished with Double Action
Nos. 71 and 72



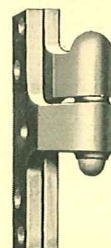
Type No. P1
Ball-Bearing Top Pivot
Furnished with Double Action
Hinges Nos. 86 and 87 and
Single Action Hinges Nos.
C88, C88 1/2 and C89



Compression Spring Type 71
Double Action



Type No. P3
Ball-Bearing Offset Pivot
Furnished with Single Action
Nos. 88, 88 1/2, 89, T88 1/2 and T89



Type No. P4
Side Pivot
Used as an
Intermediate
or Sup-
plementary

Specification for Checking Floor Hinges Single and Double Action

Double Acting Ordinary Interior Doors

BOMMER No. H71 double acting checking floor hinges with hold-open, No. 71 without hold-open for light interior residence doors not over 2'10" wide; Bommer No. H72 double acting checking floor hinges with hold-open, No. 72 without hold-open for light interior doors not over 3' wide, but not for vestibule doors.

Federal Specification FF-H-121 Type 3500: Size II—Bommer No. H71 and 71, page 6—Size III—Bommer No. H72 and 72, page 6.

Double Acting Exterior and Vestibule Doors and Heavy Duty Interior Doors

BOMMER No. 86 double acting checking floor hinges for heavy interior doors not over 3'6" wide; for entrance and vestibule doors not over 2'10" wide. Bommer No. 87 double acting checking floor hinges for extra heavy interior doors. For entrance and vestibule doors over 2'10" wide.

Federal Specification FF-H-121 Type 3510: Size I—Bommer No. 86, page 10; Size II—Bommer No. 87, page 10.

Single Acting, Offset Type, Exterior and Vestibule Doors and Heavy Duty Interior Doors

BOMMER No. 88 single acting checking floor hinges for light interior doors not over 3' wide. Bommer No. 88½ for interior doors not over 3'6" wide; for out-swinging entrance and vestibule doors not over 2'10"; for in-swinging entrance and vestibule doors not over 2'6" wide. Bommer No. 89 single acting checking floor hinges for extra heavy interior doors not over 4' wide; for entrance and vestibule doors over 2'10" wide.

Federal Specification FF-H-121 Type 3520A: Size I—Bommer No. 88, page 12; Size II—Bommer No. 88½, page 12; Size III—Bommer No. 89, page 12.

Doors over 7'10" high shall be provided with Bommer No. P4 intermediate pivot.

Federal Specification FF-H-121 Type 3525: Bommer No. P4, page 12.

Single Acting Center Pivoted Exterior and Vestibule Doors and Heavy Duty Interior Doors

BOMMER No. C88 single acting checking floor hinges for light interior doors not over 3' wide, Bommer No. C88½ for interior doors not over 3'6" wide; for out-swinging entrance and vestibule doors not over 2'10" wide; for in-swinging entrance and vestibule doors not over 2'6" wide. Bommer No. C89 single acting checking floor hinges for extra heavy interior doors not over 4' wide; for entrance and vestibule doors over 2'10" wide.

Federal Specification FF-H-121 Type 3520: Size I—Bommer No. C88, page 16; Size II—Bommer No. C88½, page 16; Size III—Bommer No. C89, page 16.

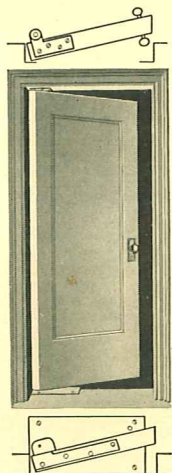
To avoid errors or delays, always refer to catalogue and specify number, size and finish and other information required. Always state hand of door when ordering single action checking floor hinges.

Hand of Doors

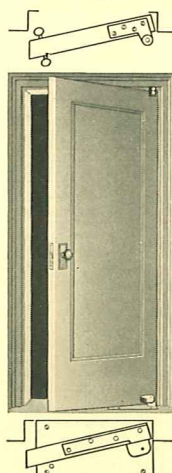
To Determine Hand of Single Action Checking Floor Hinges.



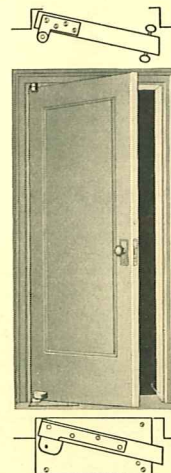
Right Hand opening out



Left Hand opening out



Left Hand opening in

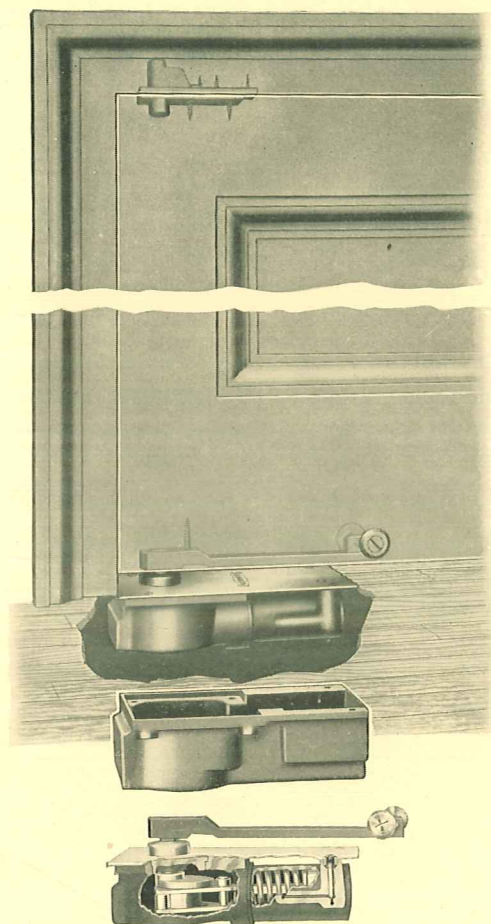


Right Hand opening in

Bommer Checking Floor Hinges

Double Action

For Light Interior Doors not over 2' 8" wide



Type 70

No. 70 non-holdopen.

No. H70 with holdopen.

For pantry or dining room doors in residence and apartment houses. Permits the door to swing in both directions, closes the door quietly and brings it to rest at center.

No. H70 will hold the door open automatically when opened 90 degrees, until released by a slight push, therefore does not require a separate door holder.

No. 70 is used when doors are not required to be held open.

The checking action is regulated by the needle-valve accessible through the floor plate, and making this floor hinge adaptable to various conditions.

They are made of drop forgings, stamped steel tempered, and other materials, that will give utmost satisfaction. All moving parts operate in a non-freezing lubricating checking liquid. The hinge case is made of impermeable iron, preventing seepage of checking liquid.

A spring top-pivot, having a movable plunger is furnished, which permits the door to be taken down easily.

No. H70 "holdopen" type in dull brass finish will be furnished, unless otherwise specified. An iron Cement-Case No. 70-33, priced separately, must be used when this hinge is set in cement, tile or concrete floors.

No. 70 Dull or Polished Brass or Bronze.....	\$15.00
No. H70 Dull or Polished Brass or Bronze.....	15.00
For ordinary plated finishes except as noted below, add to above prices.....	1.00
For Chromium Plated on Brass add to above prices.....	1.50
For Aluminum Alumilited Finish add to above prices.....	1.50
For White Bronze Metal add to above prices.....	1.50
For Chromium Plated on White Bronze Metal add to above prices.....	2.00
Iron Cement-Case No. 70-33 for cement, tile or concrete floors.....	2.00

Weight floor check $9\frac{3}{4}$ lbs.

Iron Cement-Case $3\frac{5}{8}$ lbs.

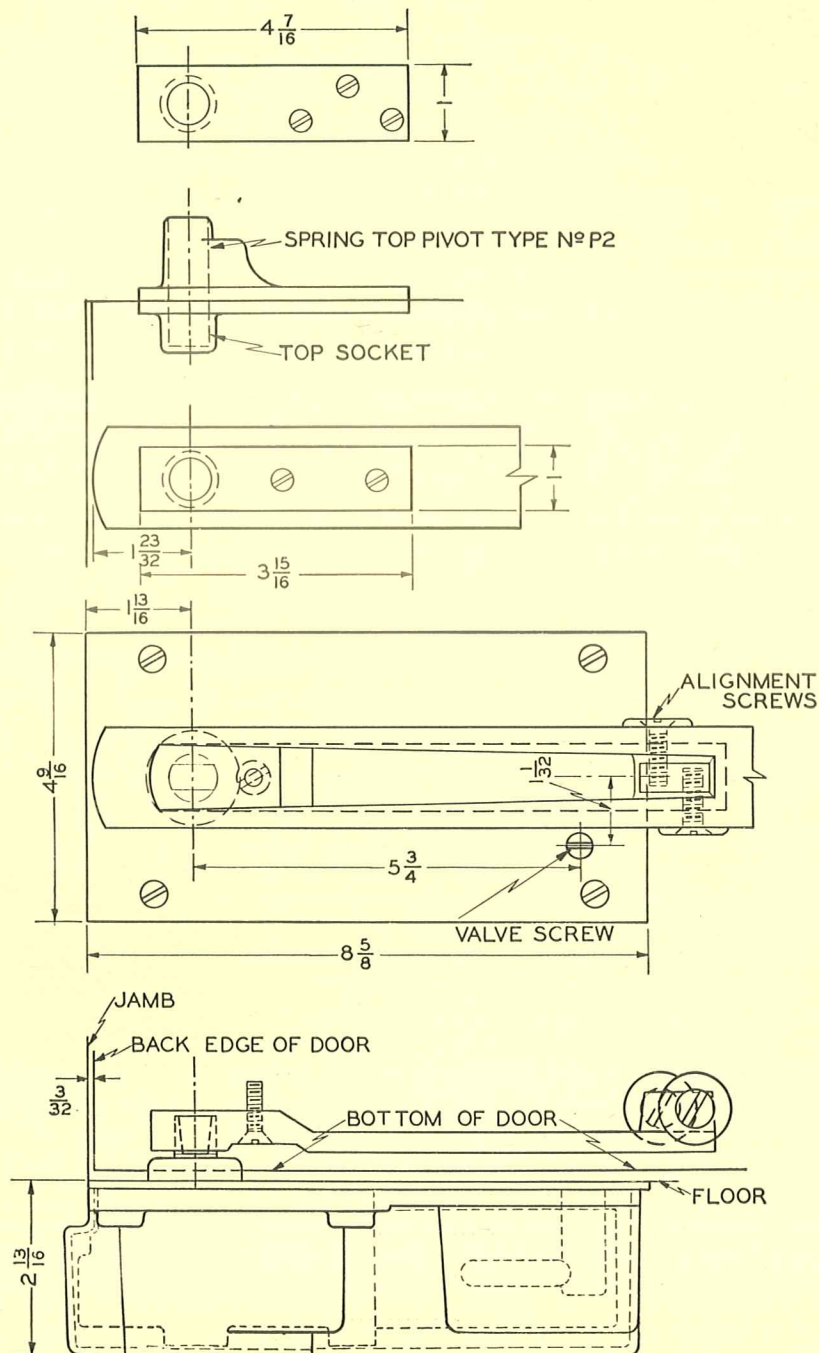
Packed complete with Drawing and directions for applying Hinges.

For illustration of parts see page 24.

Bommer Checking Floor Hinges

Double Action, Number 70

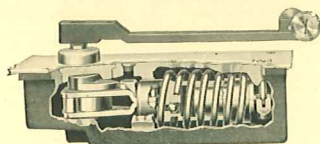
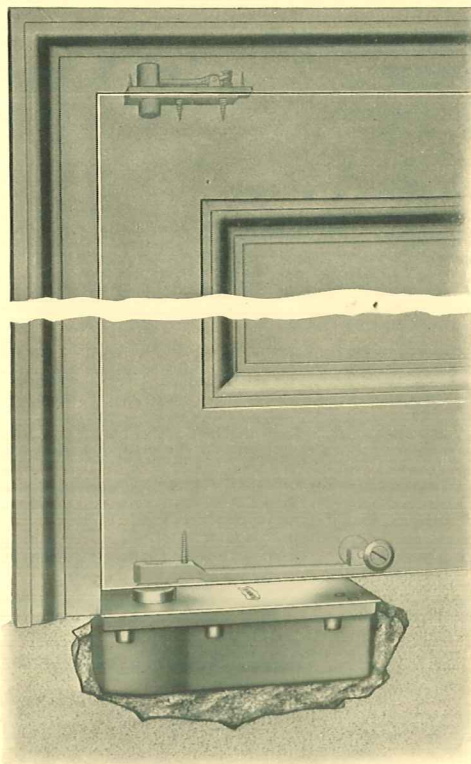
For Light Interior Doors only 2' 8" wide



Blue Print Templet furnished on request.

Bommer Checking Floor Hinges

Double Action. For Light Interior Doors Only



Type 71

No. 71 non-holdopen doors not over 2' 10" wide.

No. H71 with holdopen at 90°.

No. 72 non-holdopen doors not over 3' 0" wide.

No. H72 with holdopen at 90°.

Permits the door to swing in both directions, closes the door quietly and brings it to rest at center.

Note: Hinges that hold open on one side only, furnished when specially ordered. (State hand of door.)

The checking action is adjustable by the needle-valve accessible through the floor plate, and making this floor hinge adaptable to various conditions.

They are made of drop forgings, stamped steel tempered, and other materials that will give utmost satisfaction. All moving parts operate in non-freezing lubricating checking liquid. The hinge case is made of impermeable iron, preventing seepage of checking liquid.

No. H71 and No. H72 will hold the door open automatically when opened 90 degrees, until released by slight push, therefore does not require a separate door holder.

No. 71 and No. 72 same as No. H71 and No. H72 in all respects, but does not have holdopen feature.

No. H71 and No. H72 "holdopen" type in dull brass finish will be furnished, unless otherwise specified.

An iron Cement-Case No. 71-24 or No. 72-24, priced separately, must be used when hinge is set in cement, tile or concrete floors.

No. 71 Dull or Polished Brass or Bronze	\$17.00
No. H71 Dull or Polished Brass or Bronze	17.00
No. 72 Dull or Polished Brass or Bronze	20.00
No. H72 Dull or Polished Brass or Bronze	20.00
For ordinary plated finishes, except as noted below, add to above prices	1.00
For Chromium Plated on Brass add to above prices	1.50
For Aluminum Alumilited Finish add to above prices	1.50
For White Bronze Metal add to above prices	1.50
For Chromium Plated on White Bronze Metal add to above prices	2.00
Iron Cement-case for size No. 71-24 or No. 72-24	2.50

Weight of floor check No. 71 and H71—15 $\frac{7}{8}$ lbs. No. 72 and H72—16 $\frac{1}{4}$ lbs. each.

Weight of iron Cement-Case No. 71-24 and H71-24—4 lbs. No. 72-24 and H72-24—4 lbs. each.

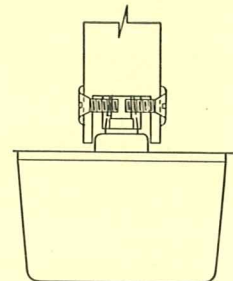
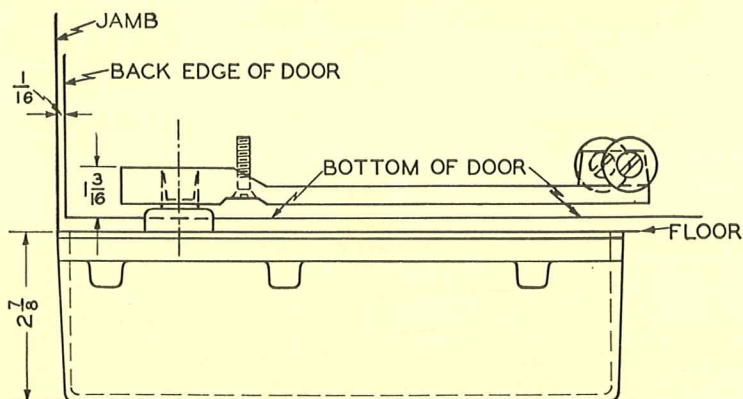
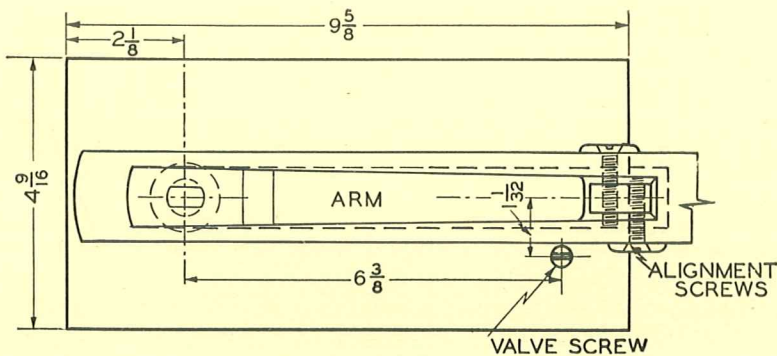
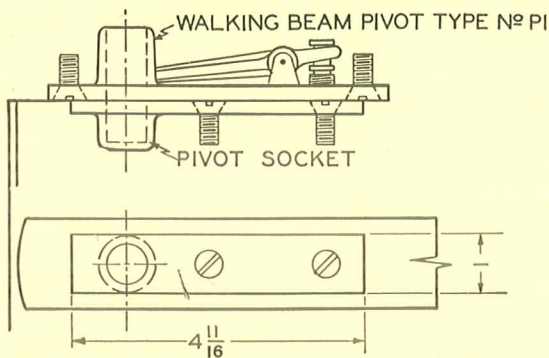
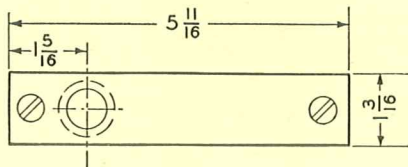
Packed complete one set in a box with Templet drawing and directions for applying Hinge.

For illustration of parts see page 24.

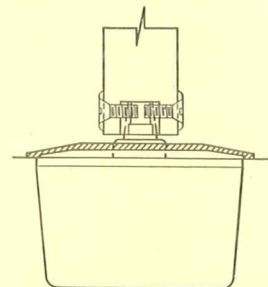
Thresholds to be used with Checking Floor Hinges see Pages 18 and 19.

Bommer Checking Floor Hinges

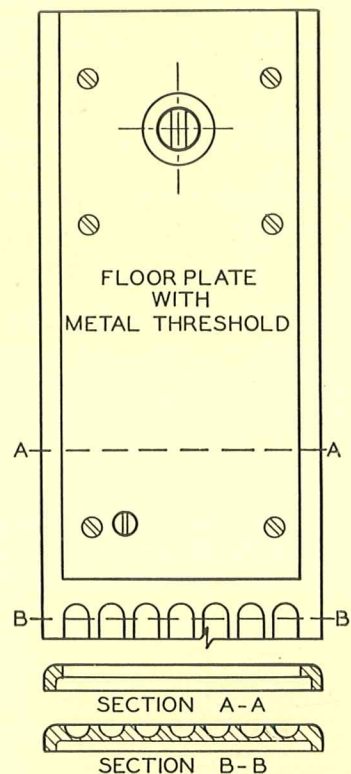
Double Action, Numbers 71 and 72
For Interior Doors Only



CHECK APPLIED
FLUSH WITH FLOOR



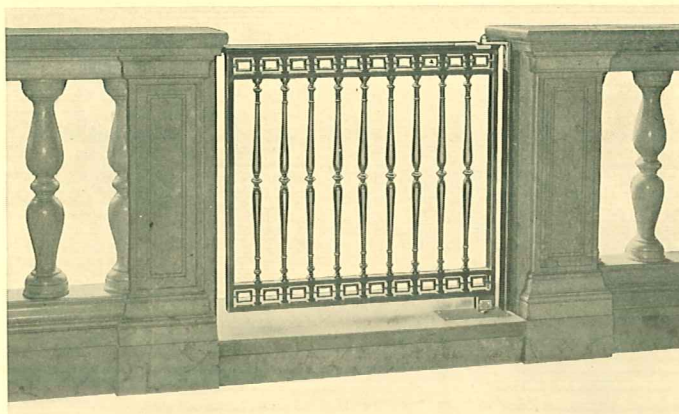
CHECK APPLIED
BELOW THRESHOLD



Blue Print Templet furnished on request.

Bommer Double Action Checking Floor Hinges

For Office Gates



No. G71 non-holdopen for wood gates.

No. GH71 with holdopen for wood gates.

No. G72 non-holdopen for metal gates.

No. GH72 with holdopen for metal gates.

The construction of the mechanism of No. G71 and G72 are the same as No. 71 and 72 respectively (page 6). The top-pivot regularly furnished has a stop to prevent opening the Gate beyond 120 degrees. The bottom shoe permits alignment and is adjustable to varying thickness of the gate.

Where not practical to use the regular Top-Pivot a special Clamp-Pivot (detail on opposite page) that fastens to back of Gate can be furnished. It is adjustable. The Gate can be opened as far as trim permits.

The checking action is adjustable by the needle-valve accessible through the floor plate and makes this hinge adaptable to various conditions.

An Iron Cement-Case No. G71-24, or G72-24, priced separately, must be used when hinge is set in cement, tile or concrete floors.

No. G71. Dull or Polished Brass or Bronze	\$17.00
No. GH71. Dull or Polished Brass or Bronze	17.00
No. G72. Dull or Polished Brass or Bronze	20.00
No. GH72. Dull or Polished Brass or Bronze	20.00
For No. P6. Special Clamp-Pivot add to above prices.....	4.50
For Ordinary Plated Finishes, except as noted below, add to above prices.....	1.00
For Chromium Plated on Brass add to above prices.....	1.50
For Aluminum Alumilited Finish add to above prices	1.50
For White Bronze Metal add to above prices.....	1.50
For Chromium Plated on White Bronze Metal add to above prices.....	2.00
Iron Cement-Case for size No. G71-24 or G72-24.....	2.00

Dull Brass furnished unless otherwise specified.

Weight of floor check: No. G71—15 $\frac{7}{8}$ lbs. No. G72—15 $\frac{7}{8}$ lbs. each.

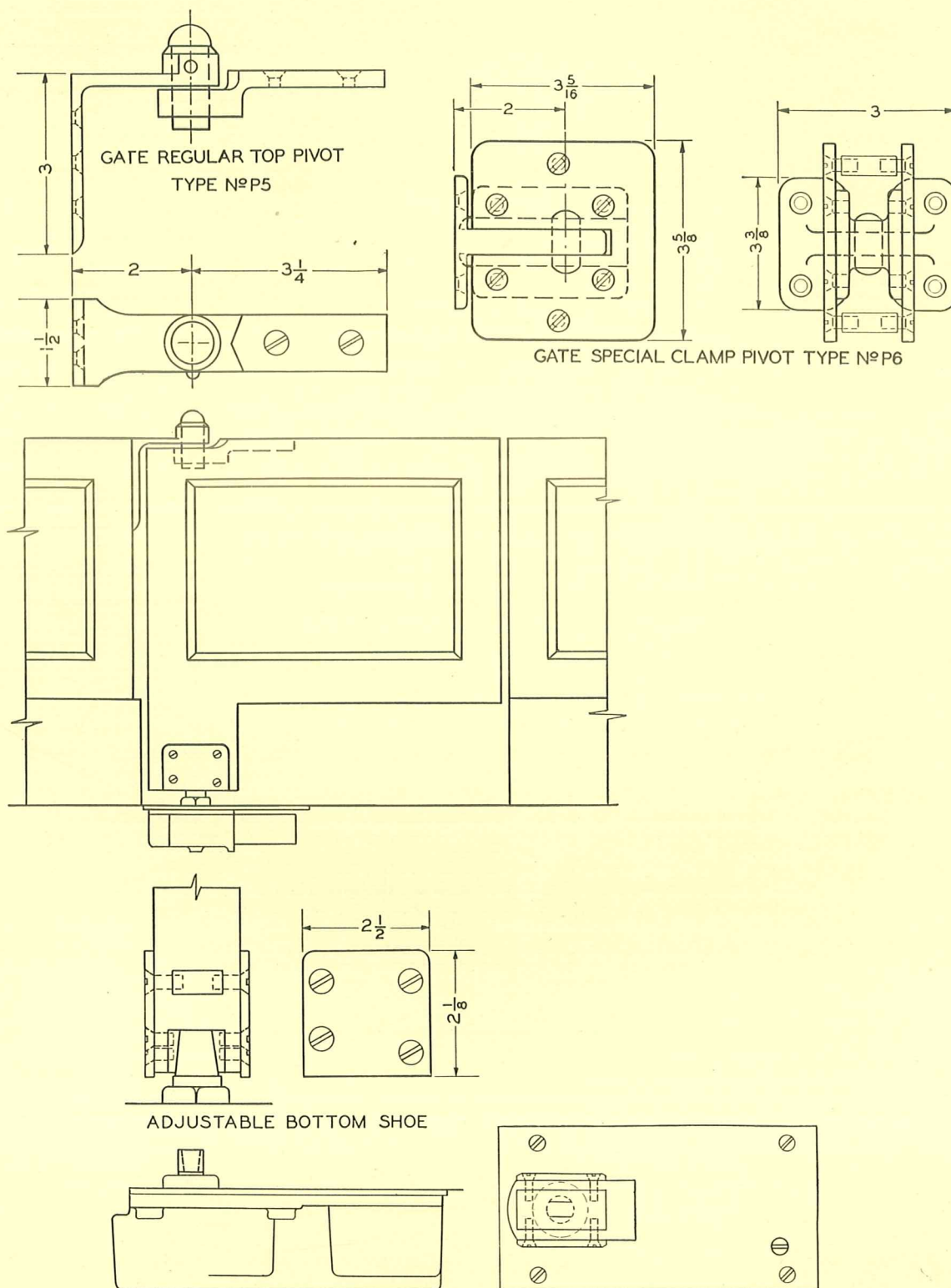
Weight of iron cement case: No. G71-24—4 lbs. No. G72-24—4 lbs. each.

Packed complete one set in a box with screws to match finish.

For illustration of parts, see page 24.

Bommer Double Action Checking Floor Hinges

For Office Gates
Numbers G71 and G72



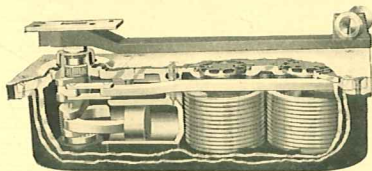
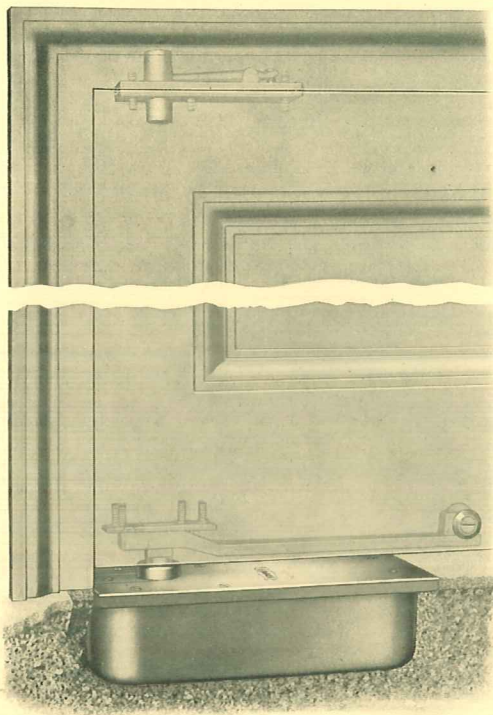
The detail of Mechanism is the same as Nos. 71-72, see page 7.

Blue Print Templet furnished on request.

Bommer Checking Floor Hinges

Double Action

**For Exterior and Heavy or Wide Interior Doors
Two Torsion Springs and Checking Devices. Non-Hold-Open**



Type 86

No. 86. For heavy Interior Doors not over 3 feet, 6 inches wide.

For Entrance and Vestibule Doors not over 2 feet, 10 inches wide.

No. 87. For extra heavy Interior Doors.

For Entrance and Vestibule Doors over 2 feet, 10 inches wide.

For theatres, hospitals, churches, schools, apartment houses, etc., where double action controlled doors are required.

These double action hinges have two springs and two checks. Each spring and check is adjustable independently. The springs can be adjusted to resist unequal wind pressure or draft on either side of the door and speed of door can be equalized by regulating the needle-valves accessible in the floor plate.

Perfect alignment secured by means of adjusting screws on either side of door. Hinge, door arm and pivot entirely concealed. Floor plate and aligning screws only are visible.

The weight of the door rests on a drop forged and case-hardened spindle which is supported on a ball bearing, and the upper end of spindle is held in alignment by a special radial roller bearing. The top pivot socket has a ball race with a hardened steel pivot pin thereby reducing friction and wear to a minimum.

The interior mechanism is made of the highest grade of forgings, stampings and castings and every part subject to wear case-hardened. All moving parts operate in non-freezing lubricating checking liquid. The hinge case is made of impermeable iron preventing seepage of checking liquid.

An Iron Cement Case is furnished with these hinges to set in cement, tile or concrete floors.

No. 86. Dull or Polished Brass or Bronze.....	\$60.00
No. 87. Dull or Polished Brass or Bronze.....	75.00
For Ordinary Plated Finishes, except as noted below, add to above prices.....	1.50
For Chromium Plated on Brass add to above prices.....	2.50
For Aluminum Aluminited Finish add to above prices.....	2.50
For White Bronze Metal add to above prices.....	2.50
For Chromium Plated on White Bronze Metal add to above prices.....	3.00

Dull Brass furnished unless otherwise specified.

Packed complete one set in a box with templet drawing and directions for applying hinge.

Weight of floor check: No. 86—48 lbs. No. 87—66 lbs. each.

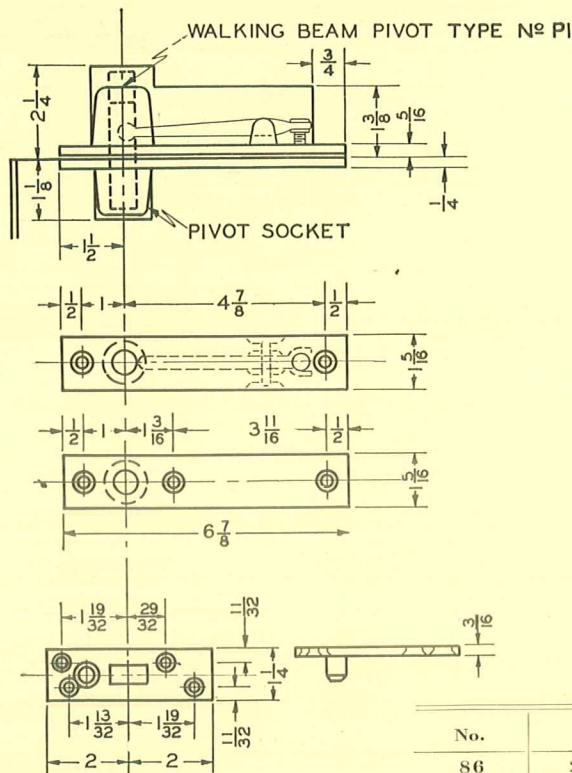
For illustration of parts, see pages 20 and 21.

Thresholds to be used with Checking Floor Hinges, see pages 18 and 19.

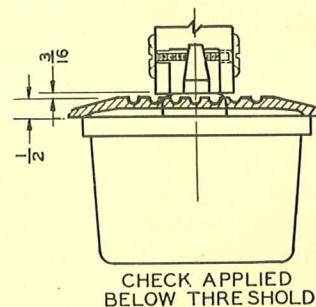
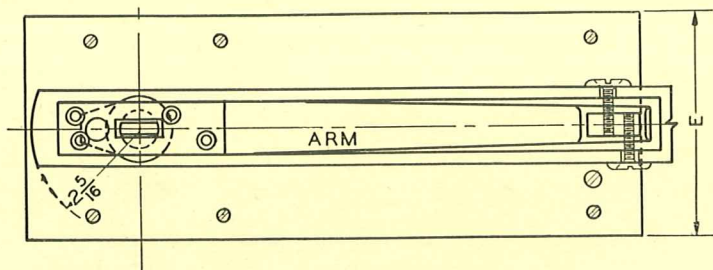
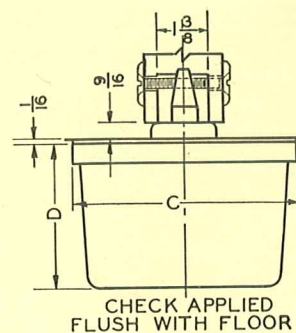
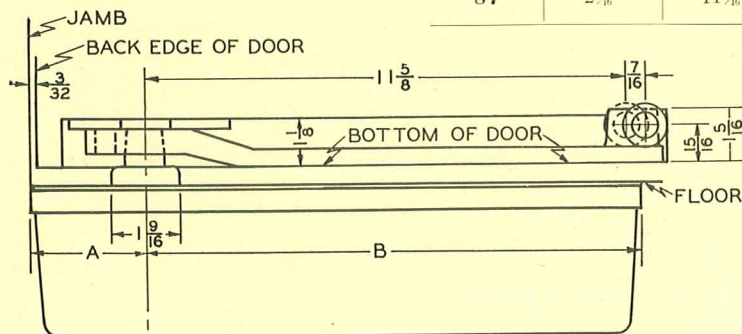
Bommer Checking Floor Hinges

Double Action, Numbers 86 and 87

For Exterior and Heavy or Wide Interior Doors



No.	A	B	C	D	E
86	$25\frac{5}{13}''$	$121\frac{1}{4}''$	$5\frac{3}{8}''$	$31\frac{1}{2}''$	$51\frac{1}{2}''$
87	$29\frac{5}{16}''$	$141\frac{1}{16}''$	$61\frac{1}{16}''$	$315\frac{1}{16}''$	$61\frac{1}{8}''$



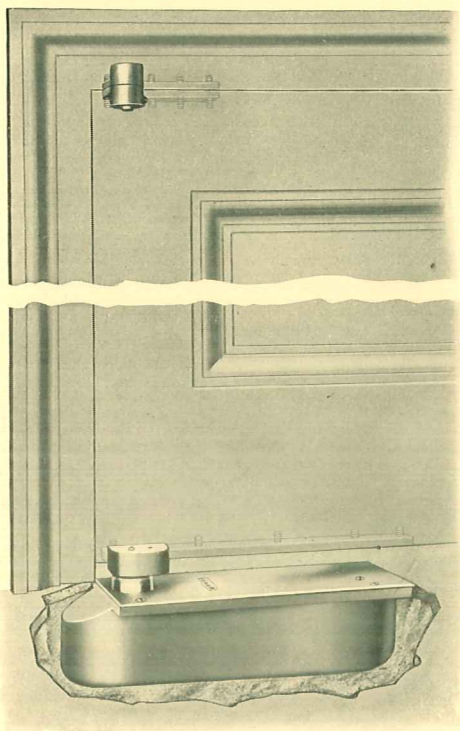
Blue Print Templet furnished on request

Bommer Checking Floor Hinges

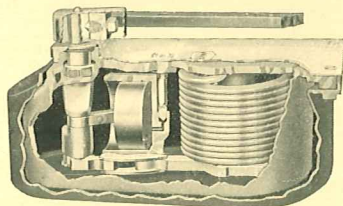
Single Action

Offset Type, For Right and Left Hand Doors (Specify Hand)

Torsion Spring Non-Hold-Open



Side Jamb
Pivot
No. P4



Type 88

No. R88 or L88. For light Interior Doors not over 3 feet wide.

No. R88½ or L88½. For Interior Doors not over 3 feet, 6 inches wide.

For Out-swinging Entrance and Vestibule Doors not over 2 feet, 10 inches wide.

For In-swinging Entrance Doors not over 2 feet, 6 inches wide.

No. R89 or L89. For Extra Heavy Interior Doors not over 4 feet wide.

For Entrance and Vestibule Doors over 2 feet, 10 inches wide.

These single action checking hinges allow the doors to be opened to 180 degrees (trim permitting) and are self-closing, smooth and quiet from that point. To meet various conditions the spring tension is adjustable and closing speed is regulated by the needle-valve accessible in the floor plate.

The Bommer patented arm attachment permits raising or lowering the door on the spindle and when setscrew is firmly tightened will positively prevent door slipping down and dragging on the threshold.

The weight of the door rests on a drop forged and case-hardened spindle which is supported on a ball bearing, and the upper end of the spindle in the No. 88½ and No. 89 has a Special Radial Roller Bearing. The No. 88 has a plain bearing. The Regular Top (lintel) Pivots are bronze, brass or aluminum forgings and have a ball bearing with case-hardened steel pin, thereby reducing friction and wear to a minimum, and holds the door in alignment.

The interior mechanism is made of the highest grade of forgings, stampings and castings and every part sub-

ject to wear case-hardened. All moving parts operate in non-freezing lubricating checking liquid. The hinge case is made of impermeable iron preventing seepage of checking liquid.

No. P4 Side-Pivot should be used as an intermediate pivot on doors over 7 feet, 6 inches high and Extra Wide Doors.

For segment head doors No. P4 side pivot is furnished instead of the regular top pivot without extra charge.

An Iron Cement-Case is furnished with these hinges to set in cement, tile or concrete floors.

The prefix letters indicate—L, left hand; R, right hand.

When ordering state if right or left hand doors.

No. R88 or L88. Dull or Polished Brass or Bronze.....	\$35.00
No. R88½ or L88½. Dull or Polished Brass or Bronze.....	45.00
No. R89 or L89. Dull or Polished Brass or Bronze.....	55.00
No. P4 Side Jamb Pivot.....	6.00
For Ordinary Plated Finishes, except as noted below, add to above prices.....	1.50
For Chromium Plated on Brass add to above prices.....	2.50
For Aluminum Alumilited Finish add to above prices.....	2.50
For White Bronze Metal add to above prices.....	2.50
For Chromium Plated on White Bronze Metal add to above prices.....	3.00

For Special Finishes on P4 Side Pivot only, add to above prices for Ordinary Plated Finishes \$.75; Chromium Plate on Brass or Aluminum Alumilite Finish \$1.00; White Bronze Metal \$1.50; Chromium Plate on White Bronze Metal \$2.00.

Dull Brass furnished unless otherwise specified.

Packed complete one set in a box with Templet drawing and directions for applying Hinge.

Weight of floor check: No. 88—19 lbs.; No. 88½—26 lbs.; No. 89—31½ lbs. each.

For illustration of parts, see pages 22 and 23.

Thresholds to be used with Checking Floor Hinges, see pages 18 and 19.

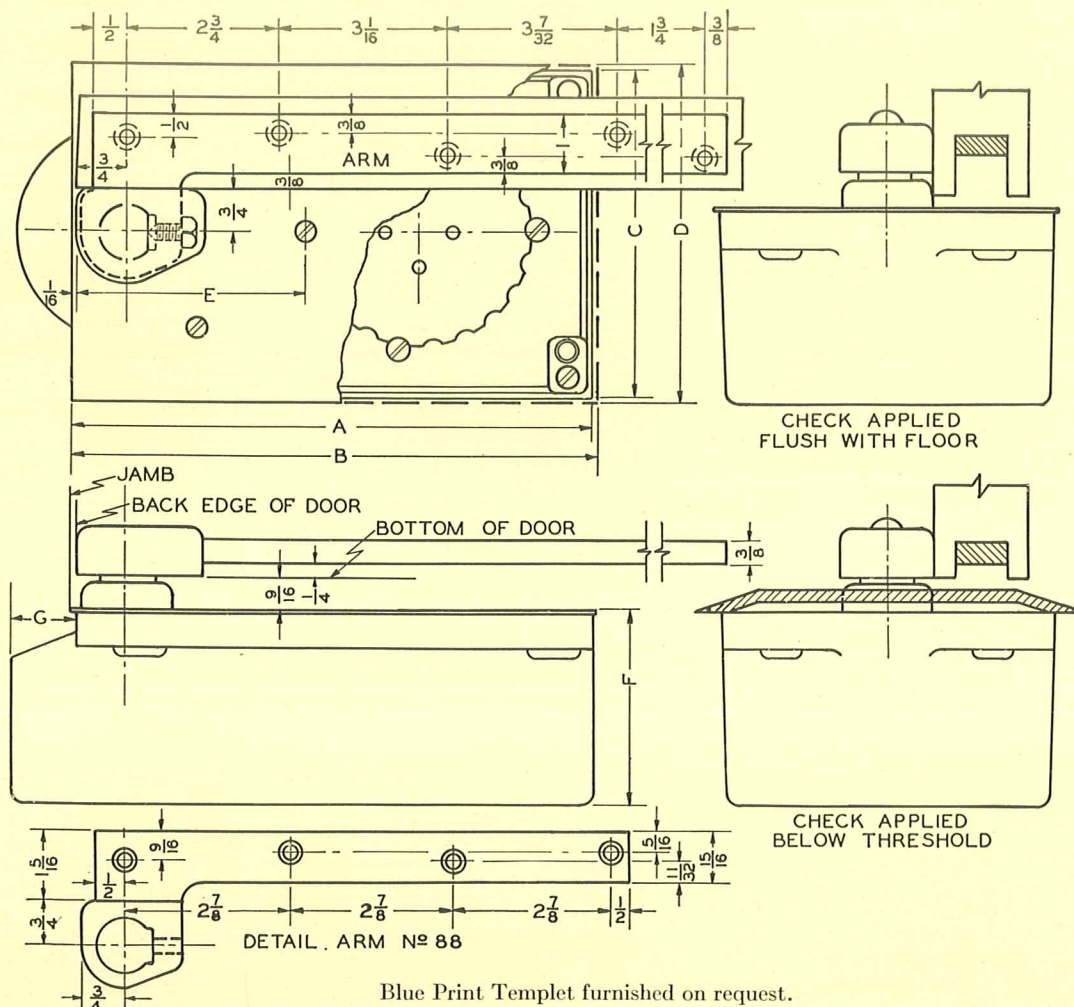
Single Action Offset Type, Numbers R88, L88, R88¹/₂, L88¹/₂, R89 and L89
For Right and Left Hand Doors

OFF SET PIVOT TYPE Nº P3

SIDE JAMB PIVOT TYPE Nº P4

No.	A	B	C	D	E	F
SS	7 ¹¹ / ₁₆ "	7 ³ / ₄ "	4 ⁵ / ₁₆ "	4 ⁵ / ₈ "	3 ¹³ / ₃₂ "	3 ¹ / ₄ "

No.	A	B	C	D	E	F	G
88	$7^{11}_{16}''$	$7^{34}_{16}''$	$4^{56}_{16}''$	$4^{58}_{16}''$	$3^{13}_{32}''$	$3^{14}_{16}''$	$1^{16}_{16}''$
88½	$8^{13}_{16}''$	$8^{78}_{16}''$	$4^{34}_{16}''$	$5^{16}_{16}''$	$3^{17}_{32}''$	$3^{11}_{16}''$	$1^{5}_{16}''$
89	$9^{78}_{16}''$	$9^{15}_{16}''$	$5^{78}_{16}''$	$6^{18}_{16}''$	$3^{58}_{16}''$	$4^{18}_{16}''$	$1^{5}_{16}''$



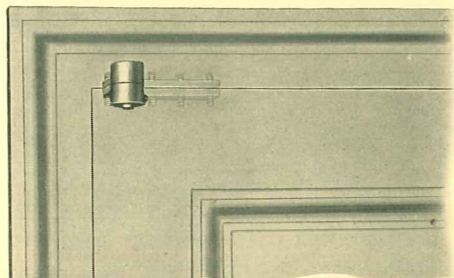
Bommer Checking Floor Hinges

Single Action

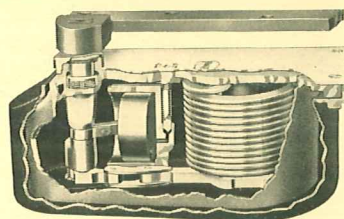
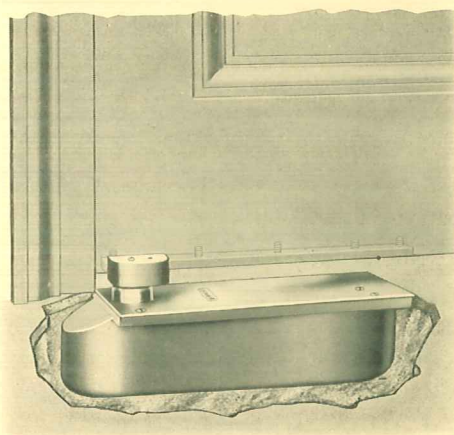
Offset Type with Tapered Spindle

For Right and Left Hand Doors (Specify Hand)

Torsion Spring, Non-Hold-open



Side Jamb
Pivot
No. P4



Type 88½

No. RT88½ or No. LT88½. For Interior Door not over 3 feet, 6 inches wide.

For Out-swinging Entrance or Vestibule Doors not over 2 feet, 10 inches wide. For In-swinging Entrance Doors not over 2 feet, 6 inches wide.

No. RT89 or No. LT89. For Extra Heavy Interior Doors not over 4 feet, 6 inches wide. For Entrance or Vestibule Doors over 2 feet, 10 inches wide.

For Metal or Heavy Doors to meet the requirement where it is not desired to use the Vertical Adjustment provided in our No. 88½ and No. 89 Hinges. The spindle is square and tapered, and the Hinge Arm has a rectangular hole that fits securely onto the spindle preventing it from slipping down and door dragging on the threshold.

These single action checking hinges allow the doors to be opened to 180 degrees (trim permitting) and are self-closing, smooth and quiet from that point. To meet various conditions the spring tension is adjustable and closing speed is regulated by the needle-valve accessible in the floor plate.

The weight of the door rests on a drop-forged and case-hardened spindle which is supported on a ball bearing, and the upper end of spindle has a special radial roller bearing. The Regular Top Pivots are bronze, brass or aluminum forgings and have a ball bearing with case-hardened steel pin, thereby reducing friction and wear to a minimum, and hold the door always in alignment.

No. P4 Side-Pivot should be used as an intermediate pivot on doors over 7 feet 6 inches high, but the pin

must be retracted when applying as the Entire Weight of door must rest on the Hinge Spindle.

When Regular Top Pivot is used this check is also suitable for doors of a minimum thickness of 1⅜ inches. When No. P4 Side-Pivot is used minimum thickness of door can be 1½ inches.

For segment head doors No. P4 Side-Pivot is furnished instead of the regular top pivot without extra charge.

An Iron Cement-Case is furnished with these hinges to set in cement, tile or concrete floors.

The prefix letters indicate—L, left hand; R, right hand; T, tapered spindle.

When ordering state if right or left hand doors.

No. RT88½ or LT88½. Dull or Polished Brass or Bronze.....	\$45.00
No. RT89 or LT89. Dull or Polished Brass or Bronze.....	55.00
For Ordinary plated finishes, except as noted below, add to above prices.....	1.50
For Chromium Plated on Brass add to above prices.....	2.50
For Aluminum Alumilited Finish add to above prices.....	2.50
For White Bronze Metal add to above prices.....	2.50
For Chromium Plated on White Bronze Metal add to above prices.....	3.00
No. P4 Side Jamb Pivot.....	6.00

Special Finishes on P4 Side-Pivot only, add to above price for Ordinary Plated Finishes \$.75; Chromium Plate on Brass or Aluminum Aluminited Finish \$1.00; White Bronze Metal \$1.50; Chromium Plate on White Bronze Metal \$2.00.

Dull Brass furnished unless otherwise specified.

Packed complete one set in a box with Templet drawing and directions for applying Hinge.

Weight of hinges: No. T88½—26 lbs.; No. T89—31½ lbs.—each. For illustration of parts, see pages 22 and 23.

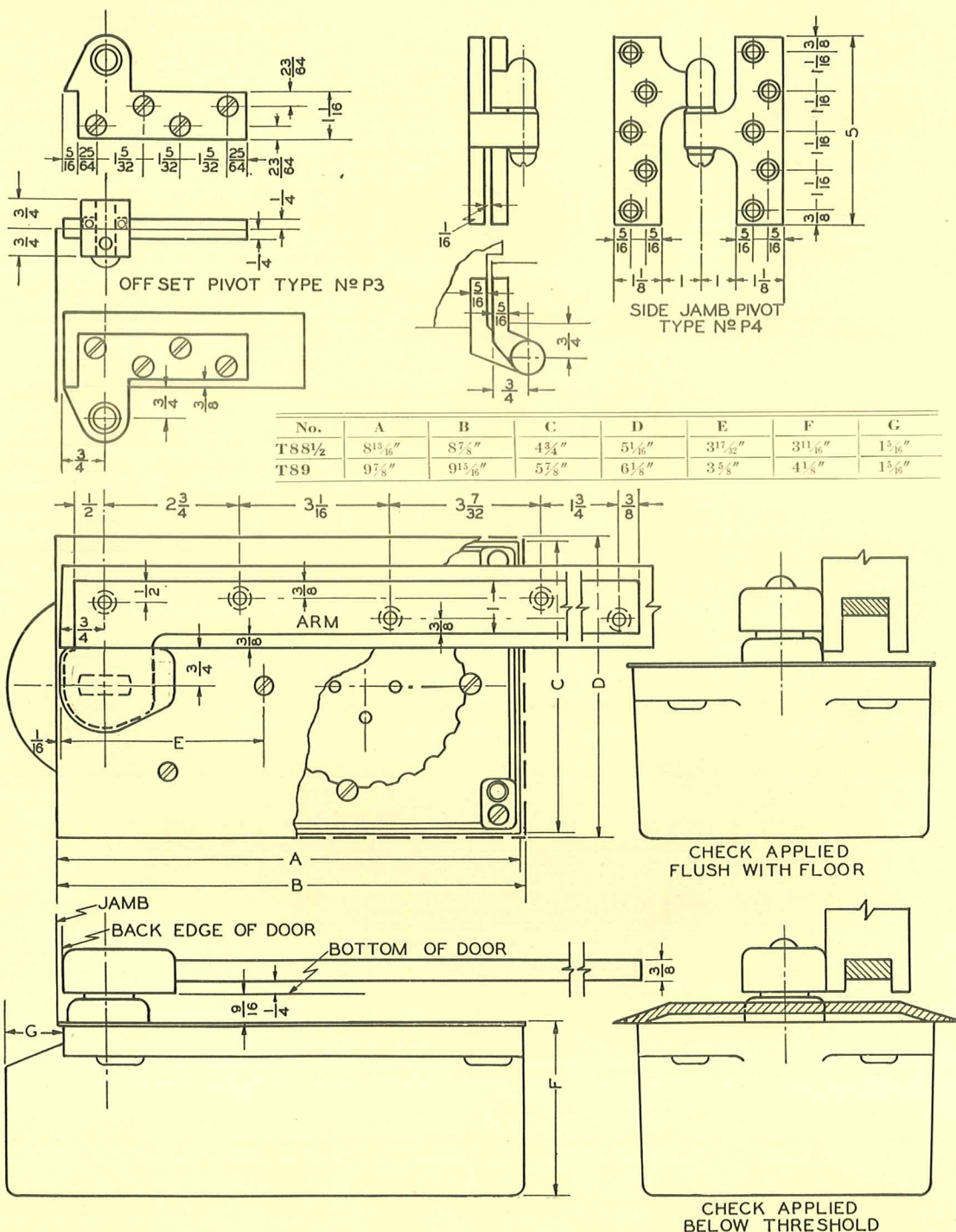
Thresholds to be used with Checking Floor Hinges, see pages 18 and 19.

Bommer Checking Floor Hinges

Single Action

Offset Type with Tapered Spindle Numbers RT88½, LT88½, RT89 and LT89 For Right and Left Hand Doors

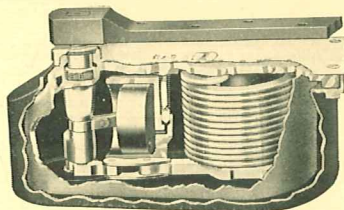
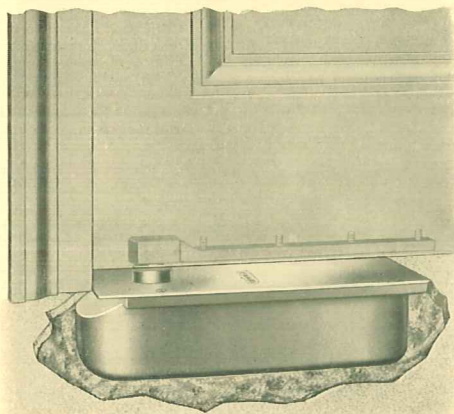
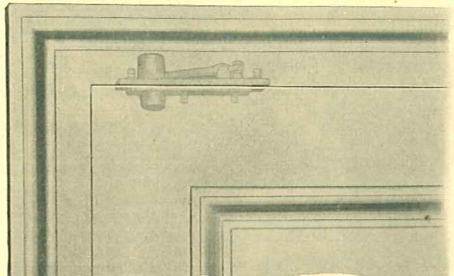
Important: when ordering state if for right or left hand doors



Blue Print Templet furnished on request.

Bommer Checking Floor Hinges

Single Action Center Hung Type For Right and Left Hand Doors (Specify Hand) Torsion Spring, Non-Hold-Open



Type C88

For Theatres, Office and Public Buildings, Doors without Mullions and hung in Groups, allows increased width of opening and eliminates all hardware from face of door.

No. C88. For light Interior Doors not over 3 feet wide.

No. C88½. For Interior Doors not over 3 feet, 6 inches wide.

For Out-swinging Entrance and Vestibule Doors not over 2 feet, 10 inches wide. For In-swinging Entrance Doors not over 2 feet, 6 inches wide.

No. C89. For extra heavy Interior Doors not over 4 feet wide. For Entrance and Vestibule Doors over 2 feet, 10 inches wide.

To meet various conditions the spring tension is adjustable and closing speed is regulated by the needle-valve accessible in the floor plate.

The weight of the door rests on a drop forged and case-hardened spindle which is supported on a ball bearing, and the upper end of the spindle in the No. 88½ and No. 89 has a Special Radial Roller Bearing. The No. 88 has a plain radial bearing.

The arm has a rectangular hole which fits securely onto the spindle preventing it from slipping down and door dragging on the threshold. The Top Pivot Socket has a ball race with case-hardened steel pin, thereby reducing friction and wear to a minimum, and holds the door in alignment.

For Office Railing Gate, this type hinge No. GC88 furnished with proper Top Pivot and Gate Shoe (see page 9).

An Iron Cement-Case is furnished with these hinges to set in cement, tile or stone floors. The prefix letters indicate—C, center hung; L, left hand; R, right hand.

When ordering state if right or left-hand doors.

No. CR88 or CL88. Dull or Polished Brass or Bronze.....	\$35.00
No. CR88½ or CL88½. Dull or Polished Brass or Bronze.....	45.00
No. CR89 or CL89. Dull or Polished Brass or Bronze.....	55.00
No. GCR88 or GCL88. Dull or Polished Brass or Bronze.....	35.00
For Ordinary Plated Finishes except as noted below, add to above prices.....	1.50
For Chromium Plated on Brass add to above prices.....	2.50
For Aluminum Alumilited Finish add to above prices.....	2.50
For White Bronze Metal add to above prices.....	2.50
For Chromium Plated on White Bronze Metal add to above prices.....	3.00

Dull Brass furnished unless otherwise specified.

Packed complete one set in a box with Templet drawing and directions for applying hinge.

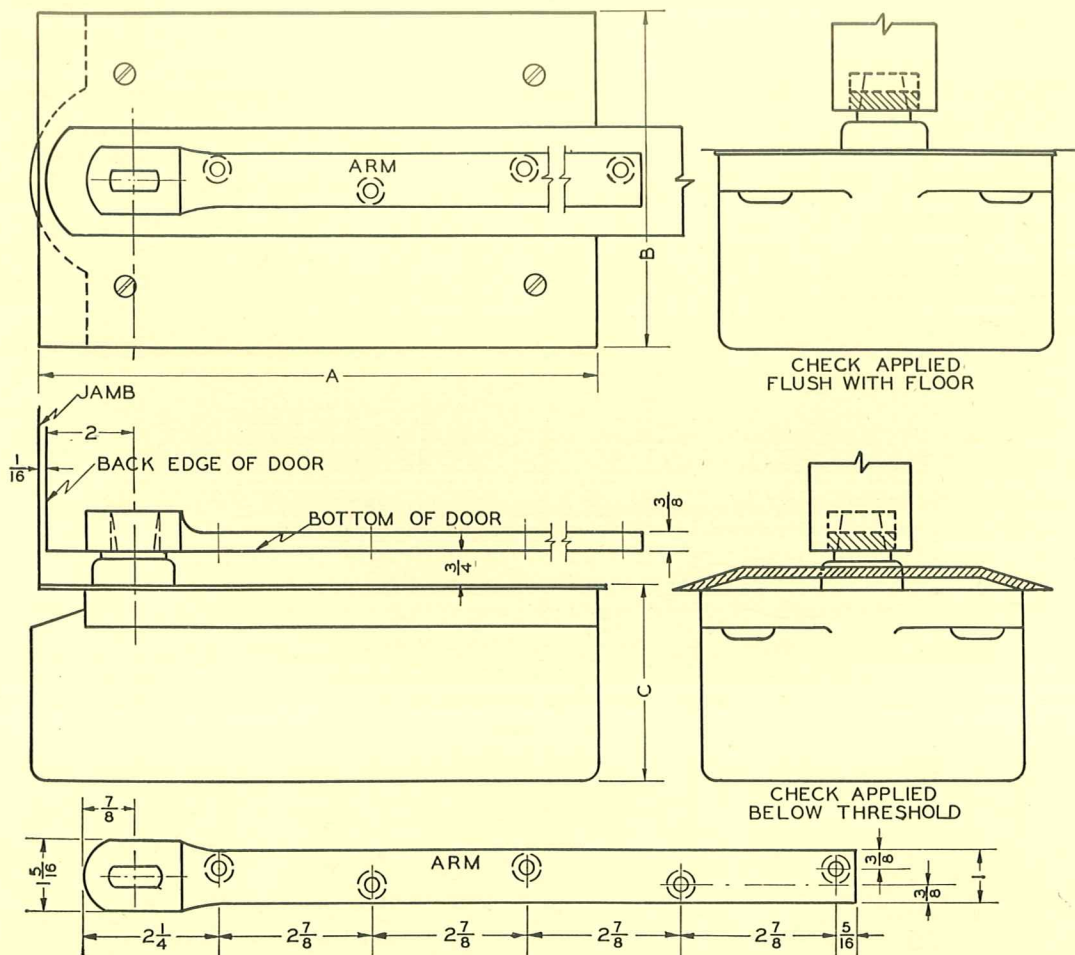
Weight of hinges: No. C88—19 lbs. No. C88½—26 lbs. No. C89—31½ lbs. each.

For illustration of parts, see pages 22 and 23.

Thresholds to be used with Checking Floor Hinges, see pages 13 and 19.

Single Action, Center Hung Type, Numbers C88, C88½ and C89 For Right and Left Hand Doors

No.	A	B	C
C88	$8^{21}_{32}''$	$4^5_8''$	$3^1_{14}''$
C88 $\frac{1}{2}$	$10^1_{14}''$	$5^1_{16}''$	$3^1_{16}''$
C89	$11^1_{14}''$	$6^1_8''$	$4^1_{16}''$

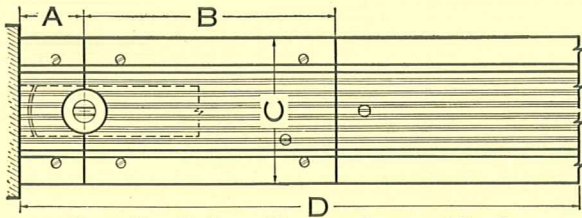


Bommer Spring Hinge Company, Manufacturers, Brooklyn, N. Y., U. S. A.

Bommer Thresholds

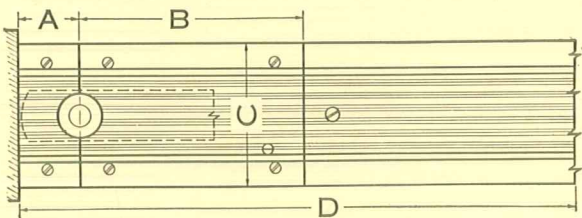
Used with Bommer Checking Floor Hinge

Standard Type for General Use



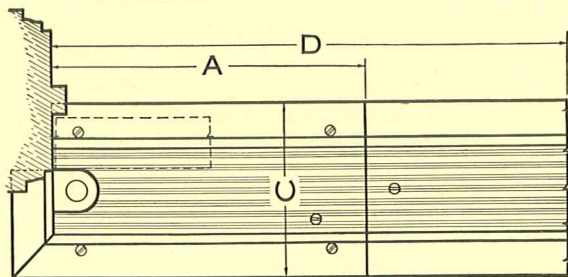
Type No. 61 Door Hung at Center of Jamb and Center of Threshold

Hinge No.	A	B	C
86	27 ¹ / ₁₆ "	12 ³ / ₈ "	6"
87	29 ¹ / ₁₆ "	14 ⁵ / ₈ "	7"
C88	13 ¹ / ₂ "	7"	5"
C88 ¹ / ₂	2"	8 ¹ / ₄ "	6"
C89	2"	9 ¹ / ₄ "	7"



Type No. 62 Door Hung at Center of Jamb and Center of Threshold

Hinge No.	A	B	C
71	21 ¹ / ₈ "	8"	5"
H71	21 ¹ / ₈ "	8"	5"
72	21 ¹ / ₈ "	8"	5"
H72	21 ¹ / ₈ "	8"	5"
86	27 ¹ / ₁₆ "	12 ³ / ₈ "	6"
87	29 ¹ / ₁₆ "	14 ⁵ / ₈ "	7"



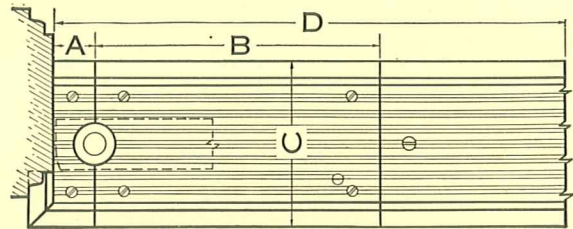
Type No. 63 and No. 63A Door Hung off Center of Jamb and Center of Threshold

No. 63
For Doors less than 1³/₄ inches thick

Hinge No.	A	B	C
88	7 ¹³ / ₁₆ "	6"	4"
88 ¹ / ₂	9 ¹ / ₁₆ "	7"	4"
89	10 ¹ / ₁₆ "	7"	4"

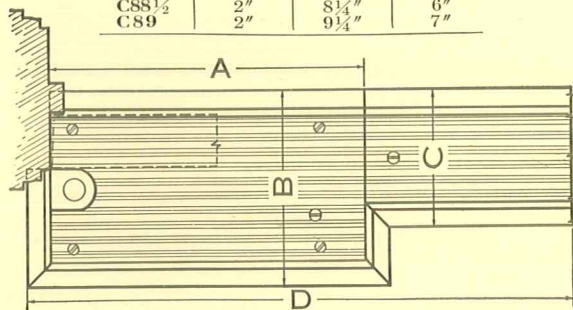
No. 63A
For Doors over 1³/₄ inches thick

Hinge No.	A	B	C
88	9 ¹ / ₁₆ "	8"	5"
88 ¹ / ₂	10 ¹ / ₁₆ "	8"	5"
89	10 ¹ / ₁₆ "	8"	5"



Type No. 64 Door Hung off Center of Jamb and Center of Threshold

Hinge No.	A	B	C
86	27 ¹ / ₁₆ "	12 ³ / ₈ "	6"
87	29 ¹ / ₁₆ "	14 ⁵ / ₈ "	7"
C88	13 ¹ / ₂ "	7"	5"
C88 ¹ / ₂	2"	8 ¹ / ₄ "	6"
C89	2"	9 ¹ / ₄ "	7"



Type No. 65 and No. 65A Door Hung off Center of Jamb and Center of Threshold

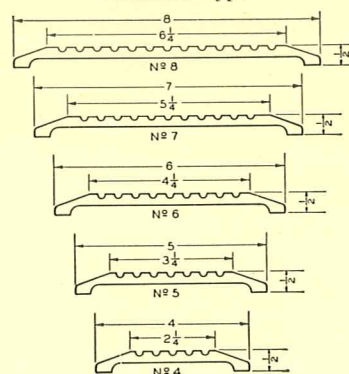
No. 65
For Doors less than 1³/₄ inches thick

Hinge No.	A	B	C
88	7 ¹³ / ₁₆ "	6"	4"
88 ¹ / ₂	9 ¹ / ₁₆ "	7"	4"
89	10 ¹ / ₁₆ "	7"	4"

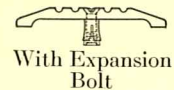
No. 65A
For Doors over 1³/₄ inches thick

Hinge No.	A	B	C
88	9 ¹ / ₁₆ "	8"	5"
88 ¹ / ₂	10 ¹ / ₁₆ "	8"	5"
89	10 ¹ / ₁₆ "	8"	5"

Standard Type



With Concrete Anchor



With Expansion Bolt



With Wood Screws

Specify if concrete anchors, expansion shields or wood screws are wanted.

When concrete anchors or expansion shields are specified, the threshold is drilled and counter-sunk on the center line for No. 12 O.H. screws 6 inches from the ends and about 12 inches center to center.

When wood screws are specified, the threshold is drilled and counter-sunk for No. 12 O.H. screws 6 inches from the ends and about 12 inches center to center.

For single action doors over 1³/₄ inches thick, Type No. 63A or No. 65A should be used and thickness of door specified so that proper width of floor plate can be supplied.

Thresholds for doors without mullions and hung in groups or unusual conditions, submit drawings for prices.

When stops or cut-outs for Exit devices are required, submit details.

In setting thresholds, the floor-hinges should be within the cement cases and blocked up in the door-opening so that the hinge spindles are properly located and the sections of the threshold line up perfectly.

When pouring concrete floors, openings should be left between jambs so that checks and threshold may be grouted in accurately after the finished jambs are in place.

Bommer Thresholds

Architectural Bronze and Aluminum, Cast White Bronze
Abrasive Bronze, Aluminum and Iron

Used with "Bommer" Checking Floor Hinges
With Removable Hinge Cover of Same Material

Specify the distance between jambs, not the distance between the stops.

Specify the width and thickness of doors. Specify the Hand of Doors.

The Minimum List Prices are based on a threshold of 30 inches long (between jambs) for single door; for each additional inch over 30 inches long add at rate of the list price per inch.

For pair of doors: double the minimum List Price for single door, and add the list per inch for each inch over 60 inches long (between jambs).

Hinge	Threshold		Minimum List Price 30 inch Threshold for Single Door Opening. For a Pair of Doors 60 inch opening, double the Price					For Thresholds over 30 inches long, add to Minimum List Prices for each additional inch the Prices below				
			Extruded Bronze or Aluminum	Cast Abrasive Aluminum	Cast Abrasive Bronze	Cast Abrasive Iron	Cast White Bronze	Extruded Bronze or Aluminum	Cast Abrasive Aluminum	Cast Abrasive Bronze	Cast Abrasive Iron	Cast White Bronze
C88	61	5 inch	\$20.00	\$18.50	\$23.50	\$15.50	\$36.00	\$.50	\$.44	\$.55	\$.30	\$.90
C88½	61	6 inch	25.00	20.00	28.00	16.50	45.00	.64	.50	.72	.34	1.10
C89	61	7 inch	27.50	23.00	32.00	17.50	49.50	.75	.60	.84	.36	1.30
86	61	6 inch	25.00	20.00	28.00	16.50	45.00	.64	.50	.72	.34	1.10
87	61	7 inch	27.50	23.00	32.00	17.50	49.50	.75	.60	.84	.36	1.30
71-H71	62	5 inch	20.00	18.50	23.50	15.50	36.00	.50	.44	.55	.30	.90
72-H72	62	5 inch	20.00	18.50	23.50	15.50	36.00	.50	.44	.55	.30	.90
86	62	6 inch	25.00	20.00	28.00	16.50	45.00	.64	.50	.72	.34	1.10
87	62	7 inch	27.50	23.00	32.00	17.50	49.50	.75	.60	.84	.36	1.30
88	63	6 inch	27.00	22.50	30.00	18.00	48.60	.64	.50	.72	.34	1.10
88½	63	7 inch	32.40	26.50	36.00	19.00	58.30	.75	.60	.84	.36	1.30
89	63	7 inch	32.40	26.50	36.00	19.00	58.30	.75	.60	.84	.36	1.30
88½	63A	8 inch	36.00	32.00	40.00	20.00	64.80	.90	.75	1.00	.42	1.60
89	63A	8 inch	36.00	32.00	40.00	20.00	64.80	.90	.75	1.00	.42	1.60
C88	64	5 inch	23.40	20.50	26.00	17.00	42.10	.50	.44	.55	.30	.90
C88½	64	6 inch	27.00	22.50	30.00	18.00	48.60	.64	.50	.72	.34	1.10
C89	64	7 inch	32.40	26.50	36.00	19.00	58.30	.75	.60	.84	.36	1.30
86	64	6 inch	27.00	22.50	30.00	18.00	48.60	.64	.50	.72	.34	1.10
87	64	7 inch	32.40	26.50	36.00	19.00	58.30	.75	.60	.84	.36	1.30
88	65	4 inch	25.00	23.00	30.00	21.50	45.00	.50	.44	.55	.30	.90
88½	65	4 inch	25.00	23.00	30.00	21.50	45.00	.50	.44	.55	.30	.90
89	65	4 inch	25.00	23.00	30.00	21.50	45.00	.50	.44	.55	.30	.90
88½	65A	5 inch	28.00	25.00	32.00	22.50	50.40	.64	.50	.72	.34	1.10
89	65A	5 inch	28.00	25.00	32.00	22.50	50.40	.64	.50	.72	.34	1.10

Bommer Checking Floor Hinges Without Floor Plates To be used with Thresholds

All Checking Floor Hinges Listed below are without Floor Plates but include Cement Case

The exposed parts only of the Top-Pivots and Arm are finished

Hinge Without Floor Plate	Brass, Bronze or Aluminum	Ordinary Plated Finishes	Chromium on Brass	Aluminum Aluminited Finish	White Bronze Metal
Number H71 or 71	\$18.00	\$19.00	\$19.50	\$18.70	\$19.50
Number H72 or 72	21.00	22.00	22.50	21.70	22.50
Number 86	57.05	58.60	59.60	58.70	59.60
Number 87	71.30	72.80	73.80	72.80	73.80
Number 88	33.50	35.00	36.00	35.00	36.00
Number 88½	42.80	44.30	45.30	44.30	45.30
Number 89	52.50	54.00	56.00	54.00	56.00
Number C88	33.20	34.70	35.70	34.70	35.70
Number C88½	42.50	44.00	45.00	44.00	45.00
Number C89	52.10	53.60	54.60	53.50	54.60
Number T88½	42.50	44.00	45.00	44.00	45.00
Number T89	52.10	53.60	54.60	53.60	54.60

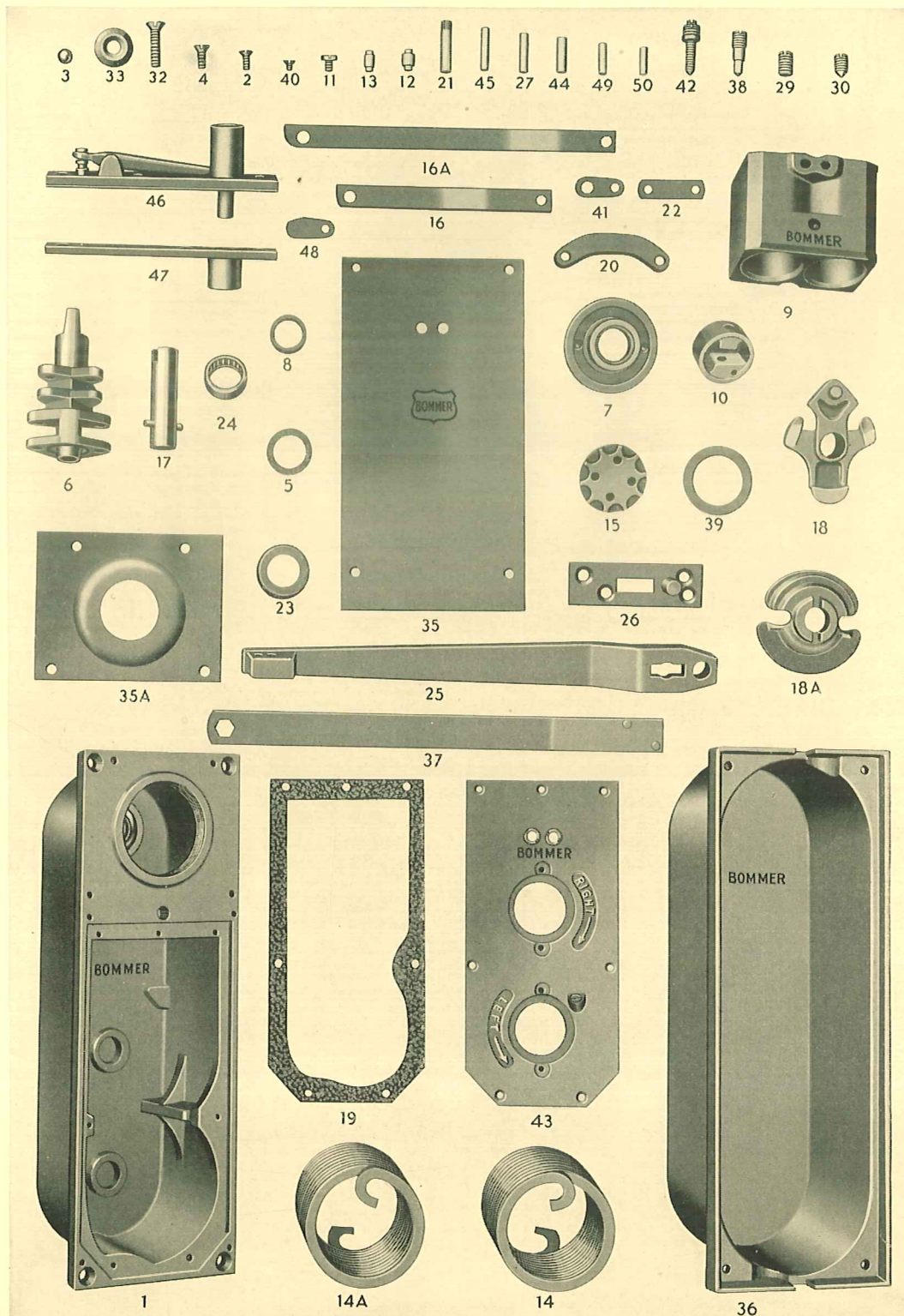
Bommer Standard Type Thresholds For General Use

Price per Foot							Approximate Weight per Foot						
Width	No.	Extruded Bronze or Aluminum	Cast Abrasive Aluminum	Cast Abrasive Bronze	Cast Abrasive Iron	Cast White Bronze	No.	Extruded Bronze	Extruded Aluminum	Cast Abrasive Aluminum	Cast Abrasive Bronze	Cast Abrasive Iron	Cast White Bronze
4 in.	4	\$4.80	\$4.50	\$4.80	\$3.00	\$8.60	4	2.34 lbs.	.75 lbs.	1.2 lbs.	3.7 lbs.	3.2 lbs.	2.34 lbs.
5 in.	5	5.75	5.30	5.75	3.50	10.30	5	3.45 lbs.	1.20 lbs.	1.5 lbs.	4.6 lbs.	4.0 lbs.	3.45 lbs.
6 in.	6	7.65	6.00	7.65	4.00	13.70	6	4.40 lbs.	1.46 lbs.	1.8 lbs.	5.4 lbs.	4.9 lbs.	4.40 lbs.
7 in.	7	9.00	7.00	9.00	4.25	16.20	7	5.4 lbs.	1.80 lbs.	2.1 lbs.	6.3 lbs.	5.7 lbs.	5.4 lbs.
8 in.	8	10.10	9.00	10.10	5.00	18.10	8	6.2 lbs.	2.10 lbs.	2.4 lbs.	7.3 lbs.	6.5 lbs.	6.2 lbs.

Parts for Bommer Checking Floor Hinges

No. 86 and No. 87

When ordering state size of hinge and the number of part wanted



Parts for Bommer Checking Floor Hinges

No. 86 and No. 87

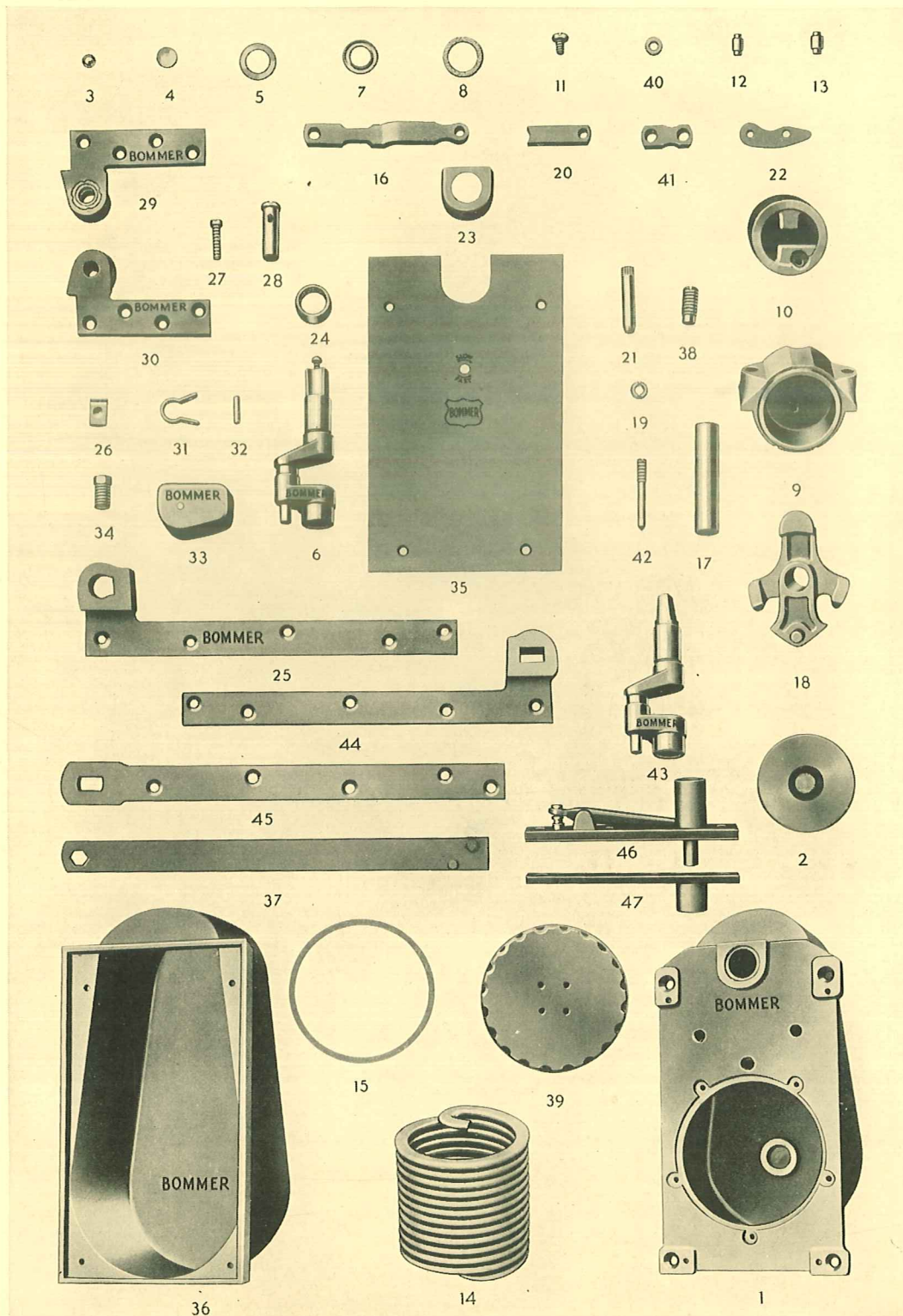
When ordering state size of hinge and the number of part wanted

No.	Name of Part	Number 86	Number 87
1	Mechanism Case.....	Each \$10.50	Each \$13.50
2	Mechanism Case Cover Screw.....	Each .02	Each .02
3	Spindle Bearing Ball.....	Each .03	Each .03
4	Cement Case Screw.....	Each .02	Each .02
5	Spindle Packing Washer.....	Each .03	Each .03
6	Spindle.....	Each 7.50	Each 9.00
7	Spindle Bearing Nut.....	Each 1.50	Each 1.50
8	Spindle Packing.....	Each .20	Each .20
9	Cylinder.....	Each 4.50	Each 6.00
10	Piston with Ball Assembled.....	Each .75	Each 1.00
11	Spring Adjusting Screws.....	Each .03	Each .03
12	Spring Link (large rivet).....	Each .15	Each .15
13	Spring Link (small rivet).....	Each .15	Each .15
14	Spring R.H.....	Each 2.25	Each 3.00
14A	Spring L.H.....	Each 2.25	Each 3.00
15	Spring Adjuster.....	Each 1.25	Each 1.25
16	Spring Link (short).....	Each 1.15	Each 1.50
16A	Spring Link (long).....	Each 1.50	Each 2.00
17	Spring Post.....	Each .90	Each 1.25
18	Spring Carrier Top.....	Each 2.25	Each 2.50
18A	Spring Carrier Bottom (handed).....	Each 2.25	Each 2.50
19	Mechanism Cover Gasket.....	Each .45	Each .62
20	Piston Link.....	Each 1.15	Each 1.15
21	Piston Connecting Pin.....	Each .20	Each .25
22	Link Side Plate (handed).....	Each .15	Each .15
23	Spindle Shoulder Cover.....	Each .75	Each .75
24	Spindle Roller Bearing.....	Each 1.50	Each 1.50
25	Arm.....	Each 3.00	Each 3.00
26	Arm Plate.....	Each .40	Each .40
27	Spring Adjuster Pin.....	Each .15	Each .15
29	Right Hand Spring Link Adjustable Screw.....	Each .15	Each .15
30	Left Hand Spring Link Adjustable Screw.....	Each .15	Each .15
32	Arm Alignment Screws.....	Each .15	Each .15
33	Alignment Screw Washers.....	Each .15	Each .15
35	Floor Plate (large).....	Each 1.75	Each 2.25
35A	Floor Plate (small).....	Each 1.25	Each 1.50
36	Cement Case.....	Each 4.50	Each 5.00
37	Adjusting Wrench.....	Each .50	Each .50
38	Cylinder Locking Screw.....	Each .35	Each .35
39	Spring Adjuster Washer.....	Each .05	Each .05
40	Floor Plate Screw.....	Each .02	Each .02
41	Spindle Link.....	Each .50	Each .65
42	Speed Adjuster with Packing and Nut.....	Each .75	Each .75
43	Mechanism Case Cover.....	Each 2.25	Each 3.00
44	Spindle Checking Link Pin.....	Each 1.15	Each 1.15
45	Spring Post Pin.....	Each .05	Each .05
46	Top Pivot for Jamb.....	Each 5.00	Each 5.00
47	Top Socket for Door.....	Each 2.00	Each 2.00
48	Spring Link Swivel.....	Each .25	Each .25
49	Spring Link Swivel Rivet.....	Each .15	Each .15
50	Spindle Spring Link Pin.....	Each .20	Each .20

Parts for Bommer Checking Floor Hinges

Nos. 88, 88½, 89, C88, C88½, C89, T88 and T89

When ordering state size of hinge and the number of part wanted



Prices of Parts for Bommer Checking Floor Hinges

Nos. 88, 88½, 89, C88, C88½, C89, T88 and T89

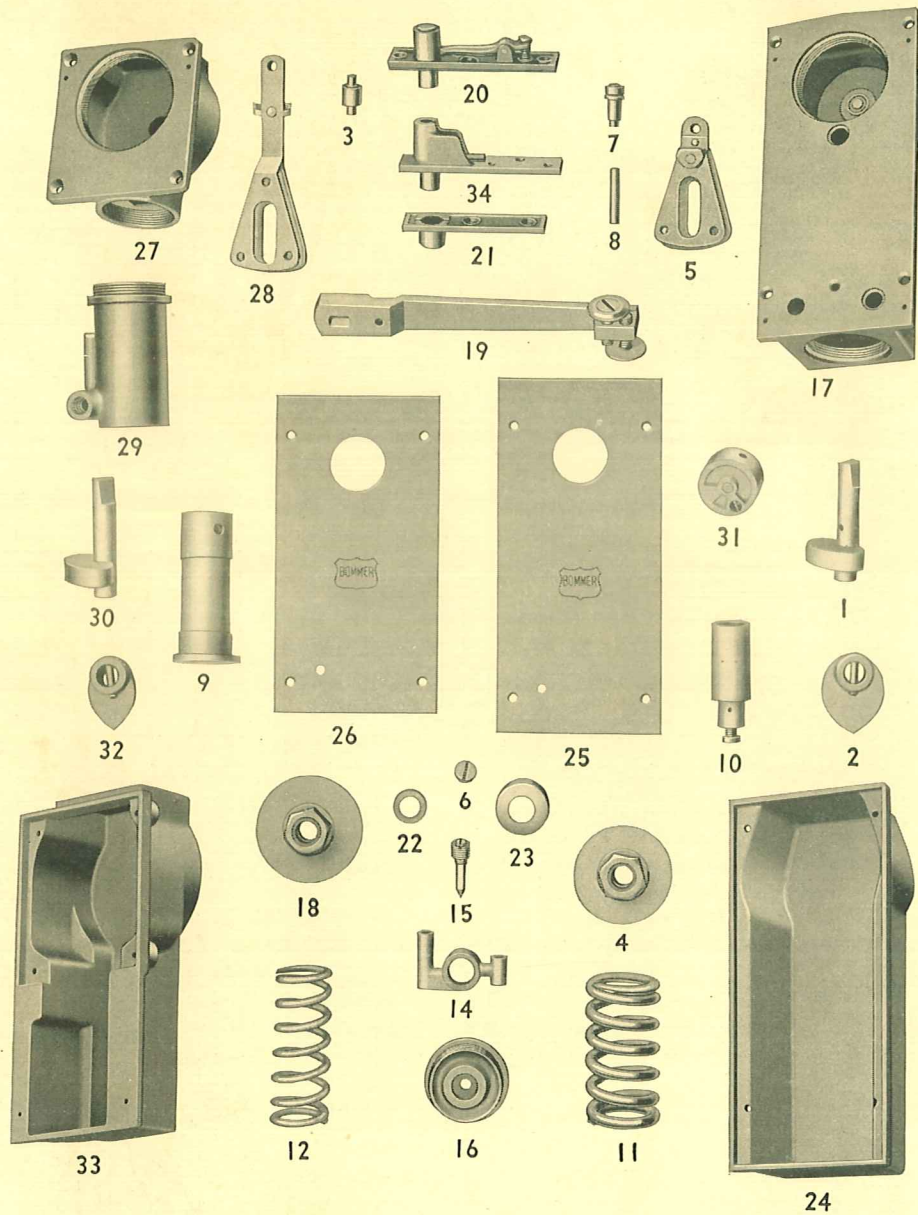
When ordering state size of hinge and the number of part wanted

No.	Name of Part, Price Each	No. 88	No. 88½	No. 89	No. C88	No. C88½	No. C89	No. T88½	No. T89
1	Mechanism Case.....	\$6.00	\$7.50	\$9.00	\$6.00	\$7.50	\$9.00	\$7.50	\$9.00
2	Spindle Bearing.....	1.25	1.50	2.00	1.25	1.50	2.00	1.50	2.00
3	Spindle Bearing Ball (10).....	.03	.03	.03	.03	.03	.03	.03	.03
4	Spindle Bearing Washer.....	.02	.02	.02	.02	.02	.02	.02	.02
5	Spindle Packing Washer.....	.03	.03	.03	.03	.03	.03	.03	.03
6	Spindle, Nos. 88, 88½, and 89.....	4.80	5.75	6.50					
7	Spindle Bearing Ball Race.....	.25	.25	.25	.25	.25	.25	.25	.25
8	Spindle Packing.....	.20	.20	.20	.20	.20	.20	.20	.20
9	Cylinder.....	1.50	2.25	2.50	1.50	2.25	2.50	2.25	2.50
10	Piston.....	.50	.75	1.00	.50	.75	1.00	.75	1.00
11	Spring Adjusting Screws (4).....	.03	.03	.03	.03	.03	.03	.03	.03
12	Spring Link (large rivet).....	.15	.15	.15	.15	.15	.15	.15	.15
13	Spring Link (small rivet).....	.15	.15	.15	.15	.15	.15	.15	.15
14	Spring (handed).....	1.75	2.25	3.00	1.75	2.25	3.00	2.25	3.00
15	Spring Adjuster Washer.....	.05	.05	.05	.05	.05	.05	.05	.05
16	Spring Link.....	.90	1.50	1.75	.90	1.50	1.75	1.50	1.75
17	Spring Post.....	.50	.50	.50	.50	.50	.50	.50	.50
18	Spring Carrier.....	1.15	2.25	2.50	1.15	2.25	2.50	2.25	2.50
19	Spring Adjuster Nut.....	.20	.20	.20	.20	.20	.20	.20	.20
20	Piston Link.....	.50	.75	.75	.50	.75	.75	.75	.75
21	Piston Connecting Pin.....	.15	.20	.25	.15	.20	.25	.20	.25
22	Link Side Plate (handed) (2).....	.15	.15	.15	.15	.15	.15	.15	.15
23	Spindle Collar Cover.....	.75	.75	.75	.75	.75	.75	.75	.75
24	Spindle Roller Bearing.....	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
25	Arm, Nos. 88, 88½, and 89 (handed).....	1.50	2.25	2.25					
26	Arm Attaching Wedge.....	.20	.20	.20					
27	Top Pivot Pin Screw.....	.10	.10	.10				.10	.10
28	Top Pivot Pin.....	.40	.40	.40				.40	.40
29	Top Pivot for Jamb (handed).....	2.50	3.00	3.00				3.00	3.00
30	Top Pivot for Door (handed).....	2.00	2.50	2.50				2.50	2.50
31	Piston Link Strap.....	.15	.15	.15	.15	.15	.15	.15	.15
32	Piston Link Strap Rivet.....	.05	.05	.05	.05	.05	.05	.05	.05
33	Arm Cover (handed).....	.75	.75	.75				.75	.75
34	Arm Locking Screw.....	.20	.20	.20				.20	.20
35	Cover Plate.....	1.50	2.25	2.50	1.50	2.25	2.50	2.25	2.50
36	Cement Case.....	1.75	3.00	3.50	1.75	3.00	3.50	3.00	3.50
37	Adjusting Wrench.....	.50	.50	.50	.50	.50	.50	.50	.50
38	Cylinder Locking Screw (2).....	.35	.35	.35	.35	.35	.35	.35	.35
39	Spring Adjuster.....	1.00	2.25	2.50	1.00	2.25	2.50	2.25	2.50
40	Speed Adjuster Packing.....	.02	.02	.02	.02	.02	.02	.02	.02
41	Spindle Link.....	.35	.50	.65	.35	.50	.65	.50	.65
42	Speed Adjuster.....	.50	.75	.75	.50	.75	.75	.75	.75
43	Spindle, Nos. C88, C88½, C89, T88½, and T89.....				4.80	5.75	6.50	5.75	6.50
44	Arm, Nos. T88½, and T89 (handed).....							3.00	3.00
45	Arm, Nos. C88, C88½, and C89.....				2.00	3.00	3.00		
46	Top Pivot for Jamb, Nos. C88, C88½, and C89.....				2.25	3.00	3.00		
47	Top Socket for Door, Nos. C88, C88½, and C89.....				.75	2.00	2.00		
	Checking Liquid, per gallon.....	4.50							

Parts for Bommer Checking Floor Hinges

No. 70, No. 71 and No. 72

When ordering state size of hinge and the number of part wanted



Price Each

Part No.	Name of Part	Hinge Number			Part No.	Name of Part	Hinge Number			Part No.	Name of Part	Hinge Number		
		70	71	72			70	71	72			70	71	72
1	Pintle.....	\$2.10	\$2.20		12	Spring.....	\$1.35	....	....	24	Cement Case.....	\$1.00	\$1.00	
2	Aligning Cam.....	1.40	1.45		14	Yoke.....	\$1.10	\$1.20		25	Cover.....	1.50	1.50	
3	Cam Roller.....	.30	.30	.30	15	Speed Regulator.....	.50	.50	.50	26	Cover.....	\$1.50	....	....
4	Assemble-opening Plug.....	.45	.50		16	Piston Bearing.....	.35	.40		27	Case.....	2.90	....	....
5	Yoke.....	.85	.90		17	Case.....	4.60	4.90		28	Yoke.....	1.30	....	....
6	Refill-opening Plug.....	.10	.20	.20	18	Assemble-opening Plug.....	.50	....	....	29	Cylinder.....	1.60	....	....
7	Actuating Roller.....	.10	.10	.10	19	Arm.....	1.80	1.80	1.80	30	Pintle.....	2.10	....	....
8	Coupling Pin.....	.05	.05	.05	20	Walking Beam Pivot.....	1.50	1.50		31	Piston.....	1.00	....	....
9	Cylinder.....	1.25	1.30		21	Pivot Socket.....	.50	.50	.50	32	Aligning Cam.....	1.50	....	....
10	Piston.....	1.00	1.05		22	Pintle Washer.....	.05	.10	.10	33	Cement Case.....	1.00	....	....
11	Spring.....	1.95	2.20		23	Pintle Cover.....	.50	.50	.65	34	Spring Top-Pivot.....	1.50	....	....

